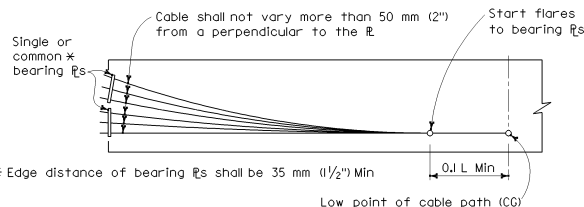


PLAN

#13M (#4) Duct ties

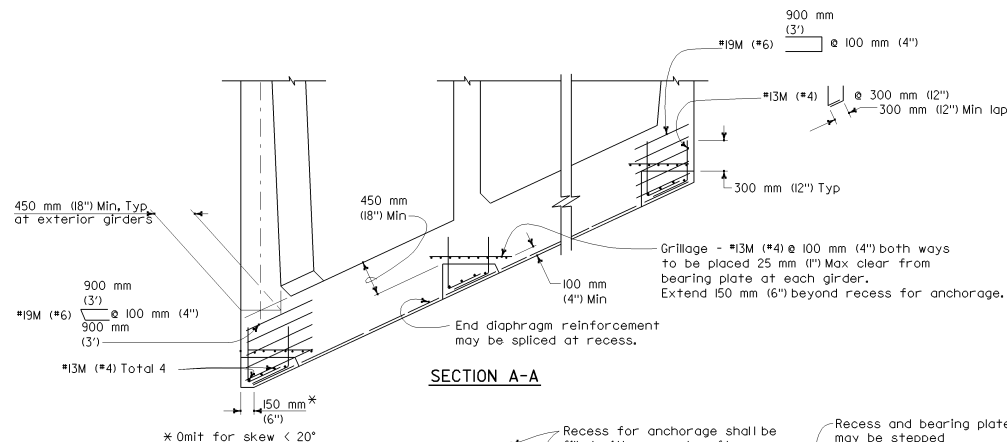
**NOTE:**

Place closed end of duct ties in direction of flare.

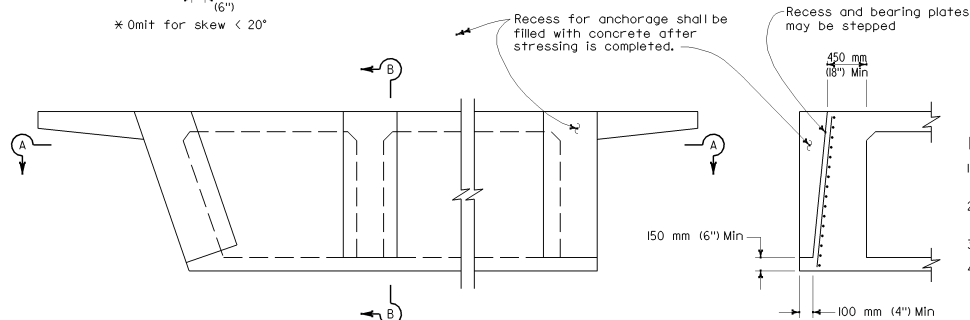


\* Edge distance of bearing fls shall be 35 mm (1 1/2") Min

Low point of cable path (CG)

**STIRRUP REINFORCEMENT AT FLARE OF GIRDER STEM****BEARING PLATE PRESTRESSING PATH**

SECTION A-A

**PRESTRESS ANCHORAGE DETAILS  
AT SEAT TYPE ABUTMENTS**

SECTION B-B

**NOTES:**

Distribution of prestressing force:

Unless otherwise noted, the prestressing force shall be distributed with an approximately equal amount in each girder and shall be placed symmetrically about the center line of the structure. In slabs, the prestressing force shall be uniformly distributed across the slab.

Stressing sequence:

No more than 1/2 of the prestressing force in any girder may be applied before an equal force is applied in the adjacent girders. The maximum force variation between girders shall also not exceed the prestressing force of the largest tendon used in all girders. At no time during stressing operations will more than 1/6 of total prestressing force be applied eccentrically about the center line of the structure.

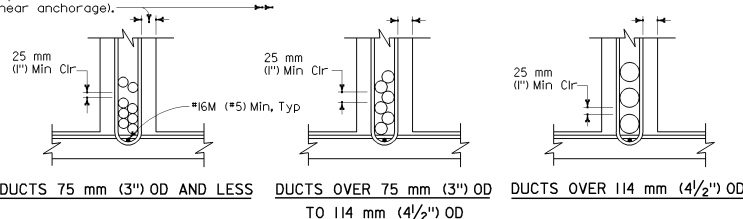
Girder stem may be flared near anchorage to provide clearances for the particular anchorage system.

Place duct ties, as shown for flare girder stem, at each location where ducts change horizontal direction.

Bar reinforcement interfering with the prestressing tendon alignment shall be adjusted, as approved by the Engineer.

The Contractor shall submit working drawings to the Engineer for approval. The working drawings shall include any additions or rearrangement of reinforcing steel from that shown on the plans. Sufficient points shall be shown on the working drawings to place ducts accurately.

60 mm (2 1/2") Min and 100 mm (4")  
Max clr to stirrup  
(except 25 mm (1") Min  
clr near anchorage).



DUCTS 75 mm (3") OD AND LESS

DUCTS OVER 75 mm (3") OD  
TO 114 mm (4 1/2") OD

DUCTS OVER 114 mm (4 1/2") OD

**CLEARANCE REQUIREMENTS FOR DUCTS****NOTES:**

1. Duct patterns shown are for a 300 mm (12") wide girder stem. For other widths the minimum clearances must be maintained.
2. Stirrups may also be used. For continuous stirrups in girder stems greater than 400 mm (16") wide (tie at flares) use 2-#16M (#5) minimum U or T.
3. For additional details see Standard Plan B7-1.
4. Approval of the Engineer is required for deviations.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**CAST-IN-PLACE  
PRESTRESSED GIRDER DETAILS**

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses ( ). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

**B8-5**

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
<p>Michael Pope REGISTERED CIVIL ENGINEER No. C54503 July 1, 2002 PLANS APPROVAL DATE</p> <p>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</p> <p>Caltrans now has a web site. To get to the web site, go to: <a href="http://www.dot.ca.gov">http://www.dot.ca.gov</a></p>					